

Paramedic

Submitter's Information

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Region Los Angeles/Orange County

College West LA College

CTE Dean Carmen Dones

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Program Information

Program Name Paramedic

Projected Start Date	2018-02-12
Program Type(s)	Certificate of Achievement 18+ Semester (27+ Quarter) Units
Certificate Required Units	36
Units of Major Degree	n/a
Total Units for Degree	n/a
TOPs Code	Emergency Medical Services (125000)
Program Goals	To prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels.
Program Description	This certificate program will qualify students for licensure as Paramedics in the State of California. The certificate program is comprised of eight courses in three distinct learning phases: didactic, clinical and field internship. During the didactic phase, lecture presentations, return demonstrations, and workshops are utilized. In the clinical segment students are rotated through hospital clinical areas and function on a one-to-one basis under direct supervision of a nurse or physician. During the field internship phase, the student is assigned to an active paramedic squad. While in this rotation, the student will perform the full scope of practice of a Paramedic under the supervision of a preceptor.
Program Requirements	As required by California Code of Regulations Title 22, students must possess a California Emergency Medical

Technician (EMT) certification to be eligible to participate, 6 months work experience as an EMT, valid driver's license (class C) required. It is also strongly recommended that the students complete the Pre-Paramedic Course (Allied Health 53) prior to enrollment into the Paramedic Program.

(1) Possess a high school diploma or general education equivalent; and

(2) possess a current basic cardiac life support (CPR) card equivalent to the current

American Heart Association's Guidelines for Cardiopulmonary Resuscitation and

Emergency Cardiovascular Care at the healthcare provider level; and

Required Courses

Course Number Course Title Units

Allied Health-43 CO ANATOMY AND PHYSIOLOGY FOR EMERGENCY HEALTH CARE PERSONNEL 4.0

Allied Health-44 CO INTRODUCTION TO EMERGENCY MEDICAL SERVICE SYSTEMS 2.0

Allied Health-45 CO PATIENT ASSESSMENT AND AIRWAY MANAGEMENT 2.0

Allied Health-46 CO CARDIOLOGY ASSESSMENT AND MEDICAL EMERGENCIES 6.0

Allied Health-47 CO EMERGENCY RESPONSE TO CRISIS 4.0

Allied Health-48 CO MEDICAL EMERGENCIES AND PHARMACOLOGICAL INTERVENTIONS 5.0

Allied Health-49 CO CLINICAL INTERNSHIP 4.0

Allied Health-50 CO FIELD INTERNSHIP 9.0

Program Projections

2018-50 Cert of Achievement

2019- 60 Cert of Achievement

2020- 70 Certi of Achivemen

**Labor Market
Information**

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Status **Recommended**

Los Angeles/Orange County Region Specific Questions

District Los Angeles Community College District

College West Los Angeles College

CRLC Member Carmen Dones

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Reason for approval request New Program

Place of program in college's curriculum/similar program Addiction Studies – Certificate of Achievement and Associate Degree Autism Services Technician – Certificate of Achievement and Associates Degree Certified Nursing Assistant & Home Health Education Classes Emergency Medical Technician Class Dental Hygiene – Bachelor of Science Dental Assisting – Certificate of Achievement and Associates Degree Medical Assisting – Certificate of Achievement and Associates Degree Paramedicine – Associate Degree Pharmacy Technician – Certificate of Achievement and Associates Degree The EMT course and Paramedic courses and Associate Degree appropriately fit into the college's commitment to serving the employment demand of partner's in the community.

Similar programs at other colleges in the Los Angeles and Orange County Region

Over the past 15 years, West Los Angeles College has offered paramedic courses in affiliation with UCLA. This request for a certificate of achievement does not represent a new program to Los Angeles and Orange County. This request simply organizes the courses so students can earn a certificate of achievement and have it annotated on their transcript. Currently, students are able to earn an Associate Degree in Paramedicine.

Los Angeles County community college associate programs include Mount San Antonio College located on the eastern edge of the county, the Paramedic Training Institute which has partnered with El Camino College and offering programs in Southwest Los Angeles, and West Los Angeles College, through its affiliation with the UCLA, offering programs in West Los Angeles area. Saddleback College offers the only program in is located in Orange County.

Collectively, these four community college programs have and continue to meet the demands for licensed paramedics in the Southern California area.

Annual Enrollment projects (non-duplicative)

2018-50 Cert of Achivement
2019- 60 Cert of Achivement
2020- 70 Certi of Achivement

Advisory Minutes

[Download Paramedic Community Advisory Minutes 1-10-18.pdf \(/storage/Los Angeles/Orange County/122-155-389-Paramedic Community Advisory Minutes 1-10-18.pdf\)](#)



EMT-Paramedic

November 2017

Prepared by the Los Angeles/Orange County Center of Excellence for Labor Market Research

Occupation Codes and Descriptions

Currently, there is one occupation in the standard occupational classification (SOC) system related to emergency medical technicians (EMT) and paramedics. The occupation title and description, as well as reported job titles are included in Exhibit 1.

Exhibit 1 – Occupations, descriptions and sample job titles

SOC Code	Title	Description	Sample of Reported Job Titles
29-2041	Emergency Medical Technicians and Paramedics	Assess injuries, administer emergency medical care, and extricate trapped individuals. Transport injured or sick persons to medical facilities.	Emergency Medical Technician (EMT); Emergency Medical Technician, Basic (EMT, B); Emergency Medical Technician/Driver (EMT/DRIVER); EMT Intermediate (Emergency Medical Technician, Intermediate); EMT, Paramedic (Emergency Medical Technician, Paramedic); EMT/Dispatcher (Emergency Medical Technician/Dispatcher); First Responder; Flight Paramedic; Multi Care Technician (Multi Care Tech); Paramedic

Source: O*NET Online

Current and Future Employment

In Los Angeles County, the number of EMT and paramedic jobs are expected to increase by 21% over the next five years. More than 400 job opportunities will be available annually for this occupation through 2021 due to new job growth and replacement need (e.g., retirements). Exhibit 2 contains detailed employment projections data for this occupation.

Exhibit 2 – Five-year projections for EMT & Paramedics in Los Angeles County

SOC	Occupation	2016 Jobs	2021 Jobs	2016 - 2021 Change	2016 - 2021 % Change	Annual Openings
29-2041	Emergency Medical Technicians and Paramedics	4,443	5,392	949	21%	428

Source: Economic Modeling Specialists International (EMSI)

Earnings

In Los Angeles County, the entry-level average wage for EMT and paramedics is \$10.88 per hour, which is **below** the MIT Living Wage¹ estimate of \$13.08 per hour for a single adult. The average annual earnings for this occupation in the region is \$39,062 per year, assuming full-time employment.

Exhibit 3 contains hourly wages and annual average earnings for these occupations. Entry-level hourly earnings is represented by the 10th percentile of wages, median hourly earnings is represented by the 50th percentile of wages, and experienced hourly earnings is represented by the 90th percentile of wages, demonstrating various levels of employment.

Exhibit 3 – Earnings for EMT-Paramedics in Los Angeles County, 2016-2021

SOC	Occupation	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings	Average Annual Earnings
29-2041	Emergency Medical Technicians and Paramedics	\$10.88	\$17.22	\$29.26	\$39,062

Source: Economic Modeling Specialists International (EMSI)

Employer Job Postings

In this research brief, real-time labor market information is used to provide a more nuanced view of the current job market, as it captures job advertisements for occupations relevant to the field of study. Employer job postings are consulted to understand who is employing EMT and paramedics, and what they are looking for in potential candidates. To identify job postings related to EMT and paramedics, the SOC code 29-2041 was used.

Top Occupations

In 2016, there were 1,382 employer postings for EMT and paramedics. There were 749 job postings for the same occupation in 2015, and 318 job postings in 2014.

Exhibit 4 – Top occupations in job postings (n=1,382)

SOC Code	Occupation	Job Postings, Full Year 2016
29-2041	Emergency Medical Technicians and Paramedics	1,382

Source: Labor Insight/Jobs (Burning Glass)

¹ MIT Living Wage Calculator. <http://livingwage.mit.edu/>

Top Titles

The top job titles for employers posting ads for EMT and paramedics are listed in Exhibit 5. EMT is mentioned as the job title in 41% of all relevant job postings (1,382 postings).

Exhibit 5 – Job titles (n=1,382)

Title	Job Postings, Full Year 2016
EMT	568
Emergency Medicine Physician	323
Emergency Room – Travel RN	86
Paramedic	62
Emergency Medicine Physician Assistant	45
Medical Technician	40

Source: Labor Insight/Jobs (Burning Glass)

Top Employers

Exhibit 6 lists the major employers hiring EMT and paramedic professionals. Top employers postings job ads included Envision, the University of Southern California, Providence Health & Services, CEP America, Liberty Ambulance, and AMR. The top worksite cities in the region for these occupations were Los Angeles, Long Beach, and Glendale.

Exhibit 6 – Top employers (n=270)

Employer	Job Postings, Full Year 2016
Envision	33
University of Southern California	19
Providence Health & Services	16
Cep America	12
Liberty Ambulance	10
AMR	8

Source: Labor Insight/Jobs (Burning Glass)

Certifications and Skills

Emergency Medical Technician (EMT) is the most sought after certification for this occupation, and was included in 37% of the postings that specified a certification. Other certifications that were largely present on postings were board certified/board eligible (26% of postings) and emergency medicine (16%). Job-specific skills desired by employers are: emergency medicine, advanced cardiac life support, CPR, critical care, and patient care.

Exhibit 7 –Job certifications (n=622) and job skills (n=403)

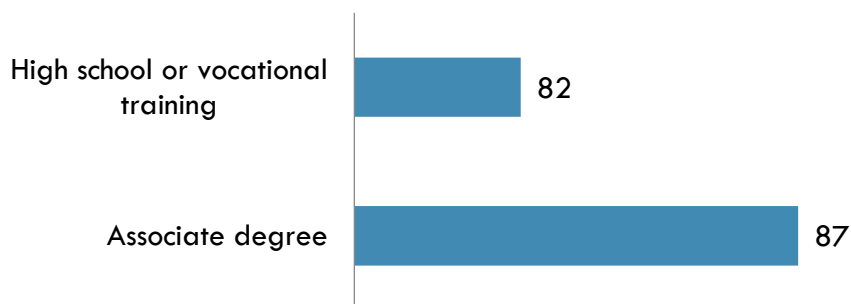
Certifications	Job Postings, Full Year 2016	Skills	Job Postings, Full Year 2016
Emergency Medical Technician (EMT)	232	Emergency Medicine	272
Board Certified/Board Eligible	159	Advanced Cardiac Life Support (ACLS)	129
Emergency Medicine	102	Cardiopulmonary Resuscitation (CPR)	86
Advanced Cardiac Life Support (ACLS) Certification	59	Critical Care	85
Nurse Practitioner	58	Patient Care	82

Source: Labor Insight/Jobs (Burning Glass)

Advertised Education Levels

Exhibit 8 displays the education level requested by employers in online job ads. The majority of employers were looking for a candidate with an associate degree. Approximately 88% of job postings did not specify a level of education.

Exhibit 8 – 2016 Online job ads with minimum advertised education requirements for EMT and Paramedics (n=169)



Source: Labor Insight/Jobs (Burning Glass)

Industry Concentration

EMT and paramedic jobs in Los Angeles County are most often found in the ambulance services industry (59% of total jobs in the industry). Exhibit 9 shows the industries that are the largest employers of EMT and paramedics in Los Angeles County.

Exhibit 9 – Industries with the largest number of EMT and Paramedics, 2016

NAICS (6-Digit)	Industry	Occupation Group Jobs in Industry	% of Occupation Group in Industry
621910	Ambulance Services	2,634	59%
903999	Local Government, Excluding Education and Hospitals	1,000	22%
622110	General Medical and Surgical Hospitals	362	8%
903622	Hospitals (Local Government)	143	3%

Education and Training

Exhibit 10 shows the typical entry-level education requirement for the occupation of interest, along with the typical on-the-job training, and percentage of workers in the field who hold a community college award or have completed some postsecondary courses. About 68% of the workforce in this occupation has completed some community college education as their highest level of education.

Exhibit 10 – Education and training requirements 2015-2020

SOC	Occupation	Typical entry-level education	Typical on-the-job training	% of Community College Award Holder or Some Postsecondary Coursework
29-2041	Emergency Medical Technicians and Paramedics	Postsecondary nondegree award	None	68%

Source: Economic Modeling Specialists International, Bureau of Labor Statistics Employment Projections (Educational Attainment)

Currently, there are two community colleges in Los Angeles County that train students to become EMT and paramedics. Exhibit 11 displays the headcount and annual average community college awards for each of the colleges training in this field. Headcount is the actual number of students enrolled, regardless of credit hours. It is also important to note that an award is not equivalent to a single person in search of a job opening, since a student may earn more than one award (e.g. an associate degree and a certificate).

Between 2012-2015, the total annual average community college awards conferred was 89 (10 associate degrees and 79 certificates) across one programs: Paramedic (1251.00).

Exhibit 11 – CCC Student Awards (by TOP and College)

2012-2015 Annual Average						
TOP Code	Program	College	CCC Headcount	CCC Associate Degrees	CCC Certificates	Total Average CC Awards
1251.00	Paramedic	El Camino	184	3	36	39
		Mt San Antonio	144	7	43	50
		Total	328	10	79	89

Source: California Community Colleges Chancellor's Office MIS Data Mart

Student Outcomes

The CTE LaunchBoard provides student outcome data on the effectiveness of CTE programs. The following student outcome information was collected from exiters of the Paramedic Taxonomy of Program (TOP) code (1251.00) in Los Angeles County for the 2014-15 academic year.

- The median annual wage after program completion is \$46,900
- 74% of students are earning a living wage
- 92% of students are employed within six months after completing a program

Source: CTE LaunchBoard

Sources

O*Net Online, Labor Insight/Jobs (Burning Glass), Economic Modeling Specialists International (EMSI), MIT Living Wage Calculator, Bureau of Labor Statistics (BLS) Education Attainment, California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart, CTE LaunchBoard, Statewide CTE Outcomes Survey, Employment Development Department Unemployment Insurance Dataset

Notes

Data included in this analysis represents the labor market demand for positions most closely related to emergency medical technicians and paramedics. Standard occupational classification (SOC) codes were chosen based on the national education level required for employment (associate degree and postsecondary certificate) as well as the proportion of current workers who hold a community college award or have had some community college training. This selection process narrows the labor market analysis to the most relevant employment opportunities for students with community college education and/or training.

Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges. Real-time labor market information captures job post advertisements for occupations relevant to the field of study and should not be used to establish current job openings, because the numbers may include duplicate job postings or postings intended to gather a pool of applicants. Real-time labor market information can signal demand and show what employers are looking for in potential employees, but is not a perfect measure of the quantity of open positions.

Paramedic Community Advisory Minutes
January 10, 2018, 9am – 12 noon

In attendance:

Dr. Clayton Kazan, Medical Director, LACOFD
 Dr. Steve Rottman, Medical Director, UCLA CPC
 Dr. Greg Hendey, Chair, UCLA Emergency Medicine
 Chief Cody Smith, Battalion Chief, Glendale Fire
 Captain Andrew Gano, Glendale Fire
 Ms. Jean Campbell-Morgan, MTM Scholarship Committee;
 Dave Page, Director, Prehospital Care Research Forum at UCLA
 Joan Lockwood, Program Approvals, LA County EMS Agency
 Lucy Hickey, Chief, Certification and Program Approvals, LA County EMS Agency
 Mr. Todd LeGassick, Executive Director, UCLA CPC
 Ms. Evelyn Hallford, Program Director, UCLA CPC
 Mr. Mark Malonzo, Educator/Coordinator, UCLA CPC
 Dr. Heather Davis, Associate Director, UCLA CPC
 Jenna Ramono, WLAC Adjunct Instructor
 William Dunne, Director, UCLA Security
 Chief (retired) Deputy Mike Metro, LACoFD
 Mr. Carlos Sermeno, Chair, WLAC Health Sciences

Chief Ken Leasure, Battalion Chief, Monterey Park Fire
 Jessica Strange, Prehospital Care Coordinator
 Dr. Parisa Partownavid, UCLA OR Director of Surgery Center
 Dorothy Harat, Medical Director, PTI Paramedic Prgm
 PM/FF Sara Rathbun, LACoFD
 Kristina Hong, Prehospital Care Coordinator
 Dr. Atilla Uner, UCLA CPC
 Chief Wes Anzai, LACoFD
 Ms. Marianne Newby, Associate Director, UCLA CPC San Gabriel/South Bay FD Consortium
 Captain Victor Torres, LACoFD
 Dr. Baxter Larmon, Director Emeritus, UCLA CPC
 Cindy Guardado, Prehospital Care Coordinator, Long Beach Memorial
 Chief Jon O'Brien, LACOFD
 Lt. Mark Littlestone, UCLA Police
 Chief Dave White, Fire Chief, Culver City

Agenda	Discussion/Action
Call to Order (9:05am)	Mr. Todd LeGassick called the meeting to order.
Welcome & Introductions Mr. Todd LeGassick, Dr. Heather Davis, Associate Director <ul style="list-style-type: none"> • Introduction of new Program Director, Evelyn Hallford 	Mr. LeGassick and Dr. Heather Davis welcomed all stakeholders. Dr. Davis introduced Ms. Evelyn Hallford, the new paramedic program director.
Purpose of Advisory Committee Dr. Steve Rottman, Medical Director & Committee Chair <ul style="list-style-type: none"> • Purpose of the Community Advisory Committee • Terminal program goal statement discussion then reaffirmation 	Dr. Steven Rottman re-introduced the purpose of the committee and asked that the terminal goal statement be discussed and reaffirmed. All community advisory board members were in support of it.
Annual Report for Commission on Accreditation, Dr. Atilla Uner <ul style="list-style-type: none"> • Benchmarks, how they are determined, and any suggestion for changes • Report on impact of adopting airway recommendations • Correction on human intubation goal (live tissue v. cadaver) • Current status of airway management practice in LA and CA 	Dr. Uner reviewed the current benchmarks for clinical and field experience. Discussion focused on the differences between the national recommended goals and the programs -- most were higher, some were lower (ie, patients with behavioral complaints). Discussion about student's recording of additional procedures/patients after a goal was

<ul style="list-style-type: none"> • Discussion then vote to approve current graduation goals 	<p>inquired about. The community advisory board recommended that the program review the benchmarks, guidelines to students, and present any recommendations at the next board meeting.</p>
<p>State of the School Dr. Davis, Associate Director</p> <ul style="list-style-type: none"> • Completion rates, National Registry performance • Hybrid/Part-time program, remote classroom, and alternate delivery possibilities • Internship overcrowding in LA and plans in progress to relieve impact • Questions and suggestions from the Advisory Committee 	<p>Dr. Davis reports at 80% unadjusted completion rate and a 88% first time national registry licensing rate. When students not completing the program because the fire department pulled them because they got a job, the completion rate is 86%. She noted the difficulty in fire departments being able to intern students because of so many vacancies and reports this is beginning to improve.</p>
<p>Scholarships (1030-1100) Dr. Baxter Larmon, Director Emeritus</p> <ul style="list-style-type: none"> • Mitch Sekine Memorial Scholarship • Ryan M. Sorek Memorial Scholarship • Marshall T. Morgan, MD Memorial Scholarship 	<p>Dr. Larmon introduced each of the memorial scholarships and the great work each is doing to honor the memory of a loved one. The Mitch Sekine scholarship has awarded 18 scholarships. The Ryan Sorek and Marshall T. Morgan have awarded two and one, respectively.</p>
<p>Needs of the School Ms. Evelyn Hallford, Program Director</p> <ul style="list-style-type: none"> • Certificate of Achievement, WLAC, Mr. Carlos Sermeno • Equipment (cardiac monitors, simulators, IV catheters) • Preceptor Development (definition of safe, competent, consistent, 18/20, culture of safety) • Questions and suggestions from the Advisory Committee 	<p>Ms. Hallford discussed the preceptor training that had been conducted for partner fire departments. Ms. Hallford also identified the needs of the program including cardiac monitors, simulators, and supplies. Ms. Katie Martin stated she would happily take supply donations of expired supplies. Ms. Hallford introduced Mr. Carlos Sermeno, Chair of the Health Sciences Division at West Los Angeles College who assessed the advisory's board interest in submitting a certificate of achievement. The members fully support the opportunity for students to earn a certificate of achievement and would like to move this forward and appreciate the Associates degree availability.</p>
<p>Adjourned</p>	<p>Dr. Rottman closed the meeting at 11:40am and thanked everyone for the time and input.</p>